Table 1, Physical characteristics of mup units					Utility		
Pattern Splitting cha	EXPLANATION racter Predominant control	Topographic expression and weathering	Rock type	Deep excavations 1/	Shallow excavations	Materials 3/	
la Blocks, mostl ger than l diameter.			Nonfoliated granite. (Westerly Granite).	Fesh implact rock requires drilling and blasting. Rock hard, tough, and homogeneous. Will	Character 22 - 2	Suitable for monumental stone but most rock is in dikes too narrow to provide rock of sufficient	
		with little penetra- tion.		stand without sup- port in tunnels and deep excavations. Joints widely spaced and tight at depth.	open near surface.	quantity and quality. Suitable for dimension stone and probably aggregate, but size of dikes a limiting factor.	
Large blocks		Massive ledges, the	Alaskite gneiss,	Same as (la)	Same as (la) except weathering causes	Suitable for dimension stone, but more	
slabs, most	n 2 m spaced. Back	determined by the	mafic-		incipient parting	difficult to work than (la) because	
in width.	joint, end joint, and sheeting prom-	thickness of the	poor gneiss.		surfaces.	of foliation and less homogeneity.	
	inent. Farting parallel to folia-	ing of joints. Weathering largely	(Alaskite gneiss,			Finer grained rock	
	tion less promin- ent than jointing.	granular disaggre- gation with little	Mamacoke Formation).			suitable for crushed rock.	
	Locally additional parting planes along	penetration.	-				
	biotitic or horn-						
	blendic screens or septa parallel to the foliation.					,	
Thick slabs,			Granite to	Similar to (1b) but	Similar to (lb). Weathering causes	Mostly suitable for dimension stone	
than 1 m	parallel to foliation	controlled by	diorite	geneous.	incipient parting	and riprap.	
	less than or as impor as joints. Potential		gneiss.		along foliation surfaces.	Darker colored	
	parting planes along more or less biotitic	dip of layering. Weathering largely	Formation).			for riprap because of higher specific	
	and hornblendic layer where planar. Gneiss	gation with shallow				gravity.	
	containing many cross	- penetration.					
	granite dikes or in which the foliation	weathering than (1b).					
	and layering is folde	ed.					
	may break into irregularly shaped blocks.						
3a Slabs, 10 c			Biotite-	Same as (2)	Similar to (lb).	Suitable for crushed	
l m in wi	inent, but rock has	of more and less re-	quartz-		Weathering causes parting along fol-	rock, riprap and dimension stone.	
	greater tendency to	sistant rock. Weath- ering similar to (2)	gneiss; biotite-		iation and layering		
	surfaces and layering	except for somewhat more rapid disaggre-	feldspar- quartz		platy minerals.		
	planar. Potential parting planes may be	gation and deeper penetration of	gneiss;			-	
	inconspicuous in free	sh weathering along surfaces of foliation	lite.				
	only be recognized by	and layering.	Formation)				
	ing micaceous seams of	or					
	more and less micaced						
3b Small bloc than 1 m	, , , , , , , , , , , , , , , , , , , ,	Low ledges and knobs. Extremely resistant to	Thick-bedde		Hydration of mica-	Difficult to crush. Might be suitable	
diameter	along bedding planes. Conspicu-	weathering, but unless in a thick series of	with thin	but greatly weak-	laminae decreases	in places for facing stone.	
	ous back joints and end joints whose	beds, does not form	partings.	layering of mica-	friction along	recent stone.	
	frequency is roughly inversely proportional to		Formation	n). inclined into	parting surfaces so that slabs		
	thickness of layers	is usually less than		excavations are subject to sliding	will slide down		
MA - =	of sequence of quart			down dip.			
	zite layers	frequency causes break- down into small blocks.					
4 Thin slabs			Thin-bedded	Similar to (2) except			
l cm to l width.	joints subordinate t	tively more resistant	quartzite	platiness of rock may cause unpre-	along foliation an		
	influence of closely spaced foliation and	Weathering greater in	graywacke, schistose	dicted problems of excavation.	slightly weathered rock; exposed rock	200.	
	compositional layeri Parting planes conspic	uous in quartzose layers.	gn iss, and		may scale, particu- larly in zone of		
	along mica-rich seam and layers, and boun		Usually con-	and greater possi-	fluctuating water table. Alternate	possibly useful as	
	daries between layer differing greatly in	s parting planes along surfaces of foliation	interlayere	ed inflow along folia-	freez-thaw action	flagstone where	
	composition.	and layering to depths of several meters.	(Plainfield	in gneiss (lb),	along joints and	and not folded.	
		Strong contrast in resis-		(2), and (3a).	foliation surfaces.		
		tance to weathering be-					
		and micaceous and amphi- bolitic layers, but			S. GEOLOGICAL SUR		
		quartzite layers are thi			(19G1: 1975) (1BRAR)		
		spaced so that quartzite tends to break down into a rubble of fragments.					
(Not a sep-		Low areas, swales; where	Biotite schis	(1), 540	Similar to (4).	Similar to (4), but	
arate unit	than 1 cm shape of outcrops,	zose may form low	quartz schi		Hydration of mica-rich layers	parting surfaces tend to be rough	
present as layers with-	spaced mica-rich	ledges. Weathering penetrates along	Usually con-	drill bits. In addition repre-	and laminae	and irregular and	
in unit 4).	surfaces control splitting.	mica-rich layers causing discoloration	layers of (4).	sents potential	coefficient of	for flagstone or facing.	
		and parting to depths of as much as 10 m.	(Plainfield Formation).	in tunnel as fric-	parting surfaces	- HOLLIG .	
				may be lowered by	so that rock slabs will slide		
				water inflow along foliation partings.	down dip.		
	U. S. G	eological Survey					
2/ Highway cuts, b	1/ Tunnels, large masonry dams, deep bridge abutments, high-rise and underground buildings 2/ Highway cuts, bridge abutments and piers, small dams and buildings OPEN FILE REPORT 75-390 This report is preliminary and has not been edited or reviewed for conformity with Geological Survey						
	, facing stone, riprap, crushed sto		Ce	standards or Innecticut (Myste sheet 2 Cop. 1	nomenclature.	logy. 1:24,000.	
			-	Cop. 1			